Lucy E Delaney

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Interests

Conceptual understanding of evolutionary principles, evolution-centered teaching, educational & racial equity, R for undergraduate education, macroevolution, the evolution of plant breeding systems

Education

Ph.D. candidate, Ecology & Evolutionary Biology — *Expected 2022*
University of Illinois at Chicago — Chicago, IL
Dissertation: *The Nature of Adaptation and the Epistemology of Natural Selection*

M.A., Molecular & Cellular Biology — 2016
Hunter College of the City University of New York — New York, NY

B.S., Forensic Molecular Biology, Philosophy — 2012
John Jay College of the City University of New York — New York, NY

Skills

- R and RMarkdown
- Technician radio license
- LaTeX and BibTeX
- HTML and CSS
- Shell scripting (novice)
- Adobe Illustrator
- Microsoft Office Suite

University Teaching

BIOS 220 Mendelian and Molecular Genetics — Fall 2019–Summer 2020
Sophomore-level course focusing on Mendelian inheritance patterns and molecular mechanisms of inheritance. Helped managed transition from in-person to online delivery. Responsible for teaching discussion section, creating digital course materials & exams, grading, drop-in hours, and Blackboard administration.

BIOS 331 General Ecology Laboratory — Summer 2019
Application of ecological and evolutionary concepts with hands-on experiments and field trips to local natural areas. Responsible for weekly laboratory instruction, drop-in hours, and grading.

BIOS 230 Ecology and Evolution — Spring 2019
Sophomore-level course with emphasis on basic ecological systems, ecosystem dynamics, and evolutionary principles. Responsible for weekly office hours, assignment creation, and grading.

BIOS 430 Evolution — Fall 2017–Fall 2018
Upper-division, programming-focused course on evolutionary theory and principles. Responsible for weekly drop-in hours & debugging, quiz materials, and grading of R programming assignments.

BIOS 120 Biology of Populations and Communities — 2016–2017
Introductory biology laboratory course with emphasis on ecological and evolutionary principles. Responsible for twice-weekly laboratory instruction, drop-in hours, and grading.

Community Teaching

Course Builder & Trainer UIC Biological Sciences Department 2020–Present
Trained in online instructional design & pedagogy, and software relevant to online teaching & learning. Assisting Biological Sciences Department faculty members in transitioning their courses online, and managing technical aspects of courses throughout online delivery. Creator and maintainer of the UIC Course Builder Website.

Tutor Nurturing Wisdom Tutoring 2018–2020
Highly-rated individual tutoring for grades 7-12 in test preparation (SAT and high school entrance exams), science, mathematics, and writing.

Substitute Teacher Chicago-area Charter Schools 2015-2016
Substitute teacher for elementary, middle, and high school classes.

Teaching Honors and Awards

- **2020** Nominated for the UIC Graduate Student Excellence in Teaching and Mentoring Award
- **2020** Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 220
- **2018** Recipient of the Biological Sciences Department Graduate Teaching Award for BIOS 430

Past and Upcoming Presentations

Flowering Plant Breeding Systems

July 2018 Annual Meeting of the Botanical Society of America | Poster
Delaney, Lucy E, Ramanauskas, K., & Igić, B. *Breeding Systems in the Legumes.*
Rochester, MN

August 2017 microMORPH Summer Course | Talk
Delaney, Lucy E. *Evolutionary Consequences of Plant Mating Systems.*
Arnold Arboretum, Harvard

Evolution Education Research

March 2021 (*upcoming*) Midwest Ecology and Evolution Conference | Talk
Delaney, Lucy E. *The Four Causes of Adaptation.*
Online

January 2021 Society for the Advancement of Biology Education Research West | Talk
Delaney, Lucy E. *The Four Causes of Adaptation.*
Online

Publications

Delaney, Lucy E. (2012). Nietzsche, nerve stimulation-image connection, and ontology. *John Jay's Finest*, *27*, 99–103.

In preparation

Delaney, Lucy E, Ramanauskas, K., & Igić, B. Breeding systems in the legumes: What do we know?
Delaney, Lucy E, Ramanauskas, K., & Igić, B. Breeding systems in the orchids.

Other Awards and Training

- **2020** Participant in the 2020 Chicago R Collaborative Conference
- **2018** Recipient of the Biological Sciences Department Travel Award
- **2018** Reviewer for International Journal of Botany, Oxford Bibliographies
- **2017** Accepted to NSF-funded workshop on Bayesian Analysis of Macroevolutionary Mixtures
- **2017** Recipient of the Biological Sciences Department Travel Award
- **2017** Accepted to microMORPH Plant Anatomy Summer Course at Harvard University
- **2016** General horticulture volunteer at Garfield Park Conservatory

Professional Experience

Forensic Molecular Biologist at NYC Office of Chief Medical Examiner 2012–2015
Examined evidence for the presence of biological fluids, performed serological & DNA analysis techniques, analyzed data & performed statistical analyses, wrote reports, and provided expert scientific testimony in court.

Health Research Intern at NYC Department of Health 2011-2012
Accepted to the Health Research Training Program for a year-long internship with the Bureau of Environmental Disease Prevention. Received training in disease epidemiology, emergency preparedness & response, public health and outreach programs in environmental disease control & prevention, and emerging viral infections.

Field Manager & Administrative Assistant at Working Families Party 2008-2011
Responsible for payroll, managing employees' healthcare coverage, bank deposits, and data entry. Organized informational events for the public, and served as Field Manager for multiple election and fundraising campaigns.